

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/535,859	03/27/2000	Larry M. Ernst	BLD990050US10036.0060	3885
24033	7590 03/12/2004		EXAM	NER
KONRAD RAYNES & VICTOR, LLP			GRANT II, JEROME	
315 S. BEVEF # 210	RLY DRIVE		ART UNIT	PAPER NUMBER
BEVERLY HILLS, CA 90212			2626	1
			DATE MAILED: 03/12/2004	, b

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Amplication No.	Applicant(s)				
		Application No.					
		09/535,859	ERNST				
	Office Action Summary	Examiner	Art Unit				
		Jerome Grant II	2626				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet w	ith the correspondence address				
THE I - Externance - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL'MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a of this within the statutory minimum of thir will apply and will expire SIX (6) MON, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
1)□	Responsive to communication(s) filed on	<u> </u>					
2a) <u></u>	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	on of Claims						
· ·	Claim(s) 1-3 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.							
·	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-7,15,16,18,19,21,29-32 and 34</u> is/are rejected.						
7)⊠	Claim(s) <u>8-14,17,20,22-28,33 and 35-38</u> is/are	objected to.	• •				
8) Claim(s) are subject to restriction and/or election requirement. Application Papers							
9)□ -	The specification is objected to by the Examine	r.					
10) 🗆 -	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) 🗌 -	12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)[a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
* S	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
IEROME GRANT II							
2) D Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	PRIMARY EX MINES Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-192)				
J.S. Patent and Tr PTO-326 (Re		ion Summary	Part of Paper No. 6				

Application/Control Number: 09/535,859

Art Unit: 2626

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 5, 7, 15, 16, 18, 19 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Bacon.

With respect to claim 1, Bacon teaches a method for reducing toner in an image comprised of raster pel data comprising: a controller 80 for determining surrounding pixels (W, Y, Z and V) of subject pels X (1-4); for each subject pel X(1-4) generating a position information (on or off) indicating an alignment of the sub-pel region in the pel, wherein the position information is used to position the sub-pel region produced by the sub-pusle width power in the pel (determination of which of t he 4 sub pels will be in an on position).

With respect to claims 2 and 16, Bacon teaches wherein toner is attached to the charged sub pel (i.e., if sub region designated as a print region).

Application/Control Number: 09/535,859

Art Unit: 2626

With respect to claims 4 and 18, Bacon teaches each subject pel, determined whether the pattern of the surrounding pels indicates that the subject pel is in a black filled region (see figure 3) wherein the position information is used to align the sub-pel regions x (1-4) in the subject pel in the black filled region to adjacent pels of the subject pels (W,Y,V,Z) regions.

With respect to claims 5 and 19, this condition is met if X1 and X4 are on or off together and X2 and X3 are opposite in position to that of X1 and X4.

With respect to claims 7 and 21, Bacon teaches surrounding pels (WYZV) include pels from the scan line as claimed wherein the subject pel is the black filled region, see figure 3. if a plurality of surrounding pels are all black (pixels W,Y,V,Z are arbitrarily on.

With respect to claim 15, Bacon teaches a system for reducing toner comprising: means (controller 80) for determining surrounding pels (WYVZ) of subject pels X(1-4) for each subject pel X(1-4) generating a position information (on or off) indicating an alignment of the sub-pel region in the pel, wherein the position information is used to position the sub-pel region produced by the sub-pusle width power in the pel (determination of which of t he 4 sub pels will be in an on position).

Application/Control Number: 09/535,859

Art Unit: 2626

2.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 29-32 and 34 are rejected under 35 U.S.C. 102(b) as being anticipated by Seto.

With respect to claim 29, Seto teaches a computer readable transmission medium RAM including a LUT 35 for reducing toner in an image comprised or raster pel data (see col. 13,ines 44-49), comprising: a plurality of output values (8 distinct pulse widths) wherein one output value is provided for at least one pattern of pels inclding a subject pel, wherein the output value is substituted for the subject pel (M-Dot), see also figure 34, and wherein the output value comprises a sub-pulse width power (1159) see figure 33, to charge a sub-pel region within the subject based on position information (m+1) Dot indicating a pel alignment. See different sub-pel regions affected by varying pulse widths.

With respect to claim 30, see figure 14B which shows the affect of the charge for use of toner.

With respect to claim 31, Seto teaches reducing radiation (toner charges) as taught at col. 9, line 12 and col. 20, lines 19-24, 34-38 and 47-55. Note that changes in phase of the clocks affect the amount of charge used to adhere the toner.

Page 5

Application/Control Number: 09/535,859

Art Unit: 2626

With respect to claim 32, Seto teaches wherein the output values for subject pels (according to figure 14b) in a black filled region include positon information (m+11) dot aligns the sub-pel region in the subject pels (figure 14B) in the black filled region to be adjacent (as identified by the examiner in figure 14B) to the sub-pel region in one adjacent subject pel in the filled region. See figure 14B for adjacent pixels being filled with the black region.

With respect to claim 34, Seto teaches that this limitation is inherent in that although not shown by figure 14B, the surrounding pixels can be all black in respective regions.

3.

Claims Objected

Claim 3, 6, 8-14, 17, 20, 22-28, 33 and 35-38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2626

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 703-305-4391. The examiner can normally be reached on Mon.-Fri. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams, can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

J. Grant II